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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-04-09-01 Date: 10-10-18
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-10-18
Sample ID No : 2018-04-09-01 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 09-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-09-01 Date: 17/10/2018

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID.No : 2018-04-16-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M15	10/10/2018	17/10/2018	149.83 X 150.49 X 150.42	22548	8.321	274.7	12.2	12.4
2	Drain Concrete	M15	10/10/2018	17/10/2018	150.52 X 150.01 X 150.48	22580	8.231	282.0	12.5	
3	Drain Concrete	M15	10/10/2018	17/10/2018	150.80 X 149.67 X 149.69	22571	8.347	282.8	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/11/2018

Lab ID : #REF!
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads , drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-10-18
Sample ID No : 2018-04-16-01 /02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M15	10/10/2018	07/11/2018	150.19 X 151.24 X 149.72	22714	8.483	402.9	17.7	17.3
2	Drain Concrete	M15	10/10/2018	07/11/2018	149.51 X 149.61 X 151.38	22367	8.326	384.1	17.2	
3	Drain Concrete	M15	10/10/2018	07/11/2018	151.26 X 150.82 X 150.21	22813	8.900	390.6	17.1	

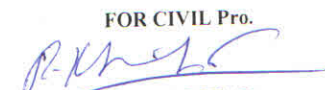
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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2018

Lab ID : CP-2018-04-09-01
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-10-18
Sample ID No : 2018-04-16-01 /03
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M15	10/10/2018	17/10/2018	150.38 X	22622	8.317	276.2	12.2	12.2
					150.43 X					
					150.89					
2	Drain Concrete	M15	10/10/2018	17/10/2018	151.61 X	22945	8.180	282.0	12.3	
					151.34 X					
					151.74					
3	Drain Concrete	M15	10/10/2018	17/10/2018	149.26 X	22457	8.654	274.3	12.2	
					150.46 X					
					150.92					

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Date.....
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/11/2018

Lab ID : #REF!
 Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
 Address : Vidyanayapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
 Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
 Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 12-10-18
 Sample ID No : 2018-04-16-01 /04
 Customer ID : Drain Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M15 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Date of test					:	07/11/2018					
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Concrete	M15	10/10/2018	07/11/2018	151.91 X	22753	8.634	407.6	17.9	17.7	
					149.78 X						
					150.22						
2	Drain Concrete	M15	10/10/2018	07/11/2018	151.32 X	22895	8.475	402.6	17.6		
					151.30 X						
					149.90						
3	Drain Concrete	M15	10/10/2018	07/11/2018	150.24 X	22531	8.896	395.2	17.5		
					149.97 X						
					149.03						

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2018

Lab ID : CP-2018-04-09-01
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-10-18
Sample ID No : 2018-04-16-01 /05
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M15	10/10/2018	17/10/2018	150.48 X	22795	8.977	283.9	12.5	12.6
					151.48 X					
					150.09					
2	Drain Concrete	M15	10/10/2018	17/10/2018	150.21 X	22494	8.959	286.6	12.7	
					149.75 X					
					150.73					
3	Drain Concrete	M15	10/10/2018	17/10/2018	151.16 X	22809	8.460	289.8	12.7	
					150.89 X					
					150.18					

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/11/2018

Lab ID : #REF!
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-10-18
Sample ID No : 2018-04-16-01 /06
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M15	10/10/2018	07/11/2018	151.25 X	22675	8.479	386.5	17.0	17.5
					149.91 X					
					150.10					
2	Drain Concrete	M15	10/10/2018	07/11/2018	151.65 X	22608	8.803	399.4	17.7	
					149.07 X					
					151.56					
3	Drain Concrete	M15	10/10/2018	07/11/2018	151.25 X	22914	8.655	404.4	17.6	
					151.50 X					
					150.96					

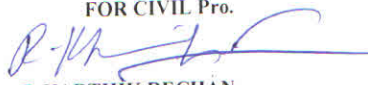
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-09-01 Date: 17/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-16-01 /07

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Date of test					: 17/10/2018						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Concrete	M15	10/10/2018	17/10/2018	151.82 X	22849	8.507	288.8	12.6	12.7	
					150.50 X						
					149.05						
2	Drain Concrete	M15	10/10/2018	17/10/2018	151.13 X	22559	8.858	288.2	12.8		
					149.27 X						
					150.64						
3	Drain Concrete	M15	10/10/2018	17/10/2018	149.38 X	22496	8.568	285.2	12.7		
					150.59 X						
					151.91						

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/11/2018

Lab ID : #REF!

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-16-01 /08

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Date of test					: 07/11/2018						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Concrete	M15	10/10/2018	07/11/2018	150.58 X	22807	8.455	402.0	17.6	17.6	
					151.46 X						
					151.48						
2	Drain Concrete	M15	10/10/2018	07/11/2018	151.10 X	22834	8.919	400.4	17.5		
					151.12 X						
					150.67						
3	Drain Concrete	M15	10/10/2018	07/11/2018	151.58 X	22791	8.809	399.0	17.5		
					150.35 X						
					150.99						

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/10/2018

Lab ID : CP-2018-04-16-01
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-18
Sample ID No : 2018-04-16-01 /01
Customer ID : RMC M20
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	RMC M20	M20	15/10/2018	22/10/2018	149.07 X 150.79 X 151.43	22479	8.242	407.7	18.1	18.5
2	RMC M20	M20	15/10/2018	22/10/2018	151.96 X 151.94 X 149.35	23090	8.321	424.5	18.4	
3	RMC M20	M20	15/10/2018	22/10/2018	149.72 X 151.00 X 150.84	22608	8.136	426.9	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID : CP-2018-04-16-01
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-18
Sample ID No : 2018-04-16-01 /02
Customer ID : M20 RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Date of test					:	12/11/2018					
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	M20 RMC	M20	15/10/2018	12/11/2018	151.09 X	22809	8.922	535.7	23.5	23.3	
					150.97 X						
					151.45						
2	M20 RMC	M20	15/10/2018	12/11/2018	149.38 X	22402	8.940	503.4	22.5		
					149.97 X						
					151.31						
3	M20 RMC	M20	15/10/2018	12/11/2018	151.15 X	22548	8.969	537.4	23.8		
					149.18 X						
					151.07						

Note:

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Certificate No.: TC- 5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/10/2018

Lab ID : CP-2018-04-16-01

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-16-01 /03

Customer ID : RMC M20

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC M20	M20	15/10/2018	22/10/2018	151.96 X	22770	8.444	424.8	18.7	18.4
					149.84 X					
					150.79					
2	RMC M20	M20	15/10/2018	22/10/2018	150.34 X	22672	8.179	411.9	18.2	
					150.80 X					
					151.21					
3	RMC M20	M20	15/10/2018	22/10/2018	149.38 X	22291	8.253	410.1	18.4	
					149.23 X					
					150.71					

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : #REF! **Date:** 12/11/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-18
Sample ID No : 2018-04-16-01 /04
Customer ID : M20 RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 RMC	M20	15/10/2018	12/11/2018	149.27 X	22405	8.341	519.7	23.2	23.1
					150.10 X					
					150.98					
2	M20 RMC	M20	15/10/2018	12/11/2018	150.50 X	22667	8.920	507.7	22.4	
					150.61 X					
					151.99					
3	M20 RMC	M20	15/10/2018	12/11/2018	150.76 X	22615	8.978	539.1	23.8	
					150.01 X					
					151.37					

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/10/2018

Lab ID : CP-2018-04-16-01

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads , drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-16-01 /05

Customer ID : RMC M20

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC M20	M20	15/10/2018	22/10/2018	150.74 X	22645	8.111	429.7	19.0	18.6
					150.23 X					
					149.09					
2	RMC M20	M20	15/10/2018	22/10/2018	150.91 X	22768	8.247	422.8	18.6	
					150.87 X					
					151.88					
3	RMC M20	M20	15/10/2018	22/10/2018	150.33 X	22763	8.713	412.6	18.1	
					151.42 X					
					149.26					

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID : #REF!
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-18
Sample ID No : 2018-04-16-01 /06
Customer ID : M20 RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Date of test					:	12/11/2018					
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	M20 RMC	M20	15/10/2018	12/11/2018	149.54 X	22288	8.756	517.0	23.2	23.2	
					149.05 X						
					149.08						
2	M20 RMC	M20	15/10/2018	12/11/2018	150.13 X	22715	8.305	514.1	22.6		
					151.31 X						
					150.70						
3	M20 RMC	M20	15/10/2018	12/11/2018	151.70 X	22715	8.935	539.3	23.7		
					149.74 X						
					149.57						

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-16-01 Date: 22/10/2018

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-16-01 /07

Customer ID : RMC M20

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC M20	M20	15/10/2018	22/10/2018	149.18 X 151.77 X 150.95	22642	8.530	430.1	19.0	18.7
2	RMC M20	M20	15/10/2018	22/10/2018	150.81 X 150.89 X 150.92	22756	8.434	423.8	18.6	
3	RMC M20	M20	15/10/2018	22/10/2018	149.24 X 151.59 X 151.10	22622	8.321	415.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID : #REF!
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-18
Sample ID No : 2018-04-16-01 /08
Customer ID : M20 RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Date of test					:	12/11/2018					
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	M20 RMC	M20	15/10/2018	12/11/2018	151.21 X	22582	8.321	527.6	23.4	23.0	
					149.35 X						
					151.58						
2	M20 RMC	M20	15/10/2018	12/11/2018	151.47 X	22754	8.668	512.5	22.5		
					150.23 X						
					149.30						
3	M20 RMC	M20	15/10/2018	12/11/2018	151.67 X	22751	8.232	525.2	23.1		
					150.01 X						
					149.62						

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/11/2018

Lab ID : CP-2018-04-16-01

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-16-01 /09

Customer ID : RMC M20

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC M20	M20	15/11/2018	22/11/2018	149.86 X 151.57 X 151.80	22714	8.134	412.6	18.2	18.7
2	RMC M20	M20	15/11/2018	22/11/2018	150.62 X 149.69 X 150.38	22546	8.210	425.0	18.9	
3	RMC M20	M20	15/11/2018	22/11/2018	149.72 X 151.19 X 149.55	22636	8.446	429.8	19.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : #REF! Date: 12/11/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads , drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-11-18
Sample ID No : 2018-04-16-01 /10
Customer ID : M20 RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 RMC	M20	15/10/2018	12/11/2018	150.11 X	22718	8.101	524.2	23.1	23.3
					151.34 X					
					151.82					
2	M20 RMC	M20	15/10/2018	12/11/2018	151.93 X	23066	8.694	528.8	22.9	
					151.82 X					
					150.24					
3	M20 RMC	M20	15/10/2018	12/11/2018	149.67 X	22478	8.679	538.8	24.0	
					150.19 X					
					151.29					

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-04-09-01 Date: 13-10-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Varadarajanagara 1st to 3rd cross Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/134/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-18

Sample ID No : 2018-04-09-01 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 09/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.385	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.377	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.358	4476	81.5	18.2	16.9	21.2

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